

Patent Abstracts of Japan

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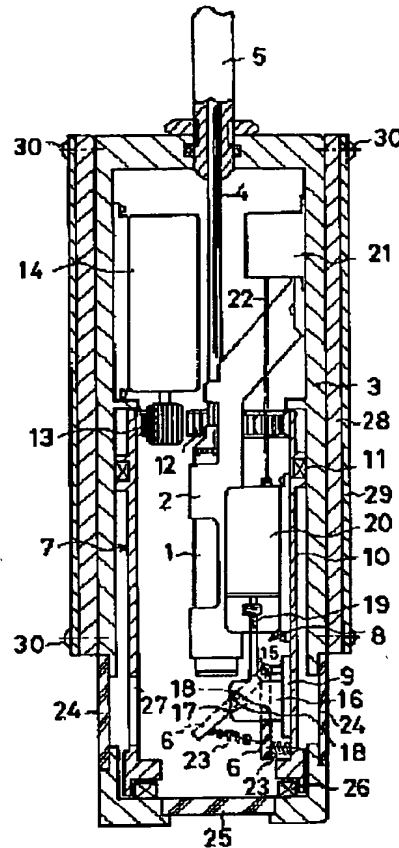
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APPLICANT : TOSHIBA CORP;

INVENTOR : KURATA MASUO;

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TITLE : INSIDE INSPECTING APPARATUS
FOR NUCLEAR REACTOR



ABSTRACT : PROBLEM TO BE SOLVED: To observe cracks formed in the structure of a nuclear reactor highly reliably and quickly and easily by utilizing a camera which can provide color information.

SOLUTION: In an inside inspecting apparatus for a nuclear reactor to carry out visual inspection of a pressure container of a nuclear reactor and the structure of the nuclear reactor by lowering a CCD color TV camera to the inside of the pressure container of the nuclear reactor from the outside, the CCD color TV camera 1 is installed in an air-tight cylindrical main body 3 and at the same time a mirror 6 is installed in the lower side of the camera 1. The angle of the mirror 6 is adjusted by a spiraling mechanism 7 and an angle adjusting mechanism 8 installed in the main body 3 and the pressure container of the nuclear reactor is made observed by front observation, side observation, and transverse observation through an observation glass window 24 in the horizontal direction and an observation glass window 25 in the vertical direction. The CCD color TV camera 1 is not affected by a radiation shielding body 28 and provides a clear images without generating noise.

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